

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-12 (canceled).

13 (new). A substantially purified polypeptide having disintegrin activity and comprising an amino acid sequence having at least 80% identity across the length of amino acids 399 through 502 of SEQ ID NO:2.

14 (new). The substantially purified polypeptide of claim 13, wherein the polypeptide comprises an amino acid sequence that is at least 90% identical across the length of an amino acid sequence selected from the group consisting of amino acids 399 through 502 of SEQ ID NO:2, amino acids 399 through 692 of SEQ ID NO:2, and SEQ ID NO:2.

15 (new). The substantially purified polypeptide of claim 13, wherein the polypeptide further comprises an amino acid sequence selected from the group consisting of: amino acids 1 through 398 of SEQ ID NO:2, amino acids 28 through 398 of SEQ ID NO:2, and amino acids 198 through 398 of SEQ ID NO:2.

16 (new). The substantially purified polypeptide of claim 13, wherein the polypeptide further comprises amino acids 503 through 692 of SEQ ID NO:2.

17 (new). The substantially purified polypeptide of claim 14, wherein the polypeptide comprises an amino acid sequence selected from the group consisting of:

- (a) amino acids 1 through 502 of SEQ ID NO:2;
- (b) amino acids 1 through 692 of SEQ ID NO:2;
- (c) amino acids 28 through 502 of SEQ ID NO:2;
- (d) amino acids 28 through 692 of SEQ ID NO:2;
- (e) amino acids 198 through 502 of SEQ ID NO:2;
- (f) amino acids 198 through 692 of SEQ ID NO:2;
- (g) amino acids 410 through 692 of SEQ ID NO:2; and
- (h) SEQ ID NO:2.

18 (new). The substantially purified polypeptide of claim 13, wherein the polypeptide further comprises an Fc domain and/or a peptide linker.

19 (new). The substantially purified polypeptide of claim 17, wherein the polypeptide comprises a sequence as set forth in SEQ ID NO:3.

20 (new). A substantially purified polypeptide having disintegrin activity and comprising an amino acid sequence having at least 80% identity across the length of amino acids 399 through 692 of SEQ ID NO:2.

21 (new). A substantially purified polypeptide having disintegrin activity and comprising amino acids 399 through 502 of SEQ ID NO:2.

22 (new). An isolated polynucleotide encoding the polypeptide of claim 13.

23 (new). The polynucleotide of claim 22 comprising SEQ ID NO:1.

24 (new). An expression vector comprising the polynucleotide of claim 22.

25 (new). A recombinant host cell comprising the polynucleotide of claim 22.

26 (new). A host cell comprising the vector of claim 24.

27 (new). A method of expressing a polypeptide encoded by the polynucleotide of claim 22 comprising culturing a recombinant host cell into which the polynucleotide of claim 22 has been introduced.

28 (new). The method of claim 27 further comprising purifying the polypeptide.

29 (new). A polypeptide produced by the method of claim 27.